

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: METALUX

Report Number: P892622

Luminaire Tested: 2MB-3SL-ASYMR-UNV-L835

Issue Date: 11/11/2024

Test Information

Test Method: LM-79-2019
Report Number: P892622
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2410-248-1)
Test Lab: INNOVATION CENTER
Issue Date: 11/11/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: METALUX
Catalog Number: 2MB-3SL-ASYMR-UNV-L835
Description: 3000 Lumen 2FT MICROBAY LINEAR BAY with ASYMMERIC REFLECTOR, 80CRI, 3500K CCT
Light Source: -
Ballast/Driver: -

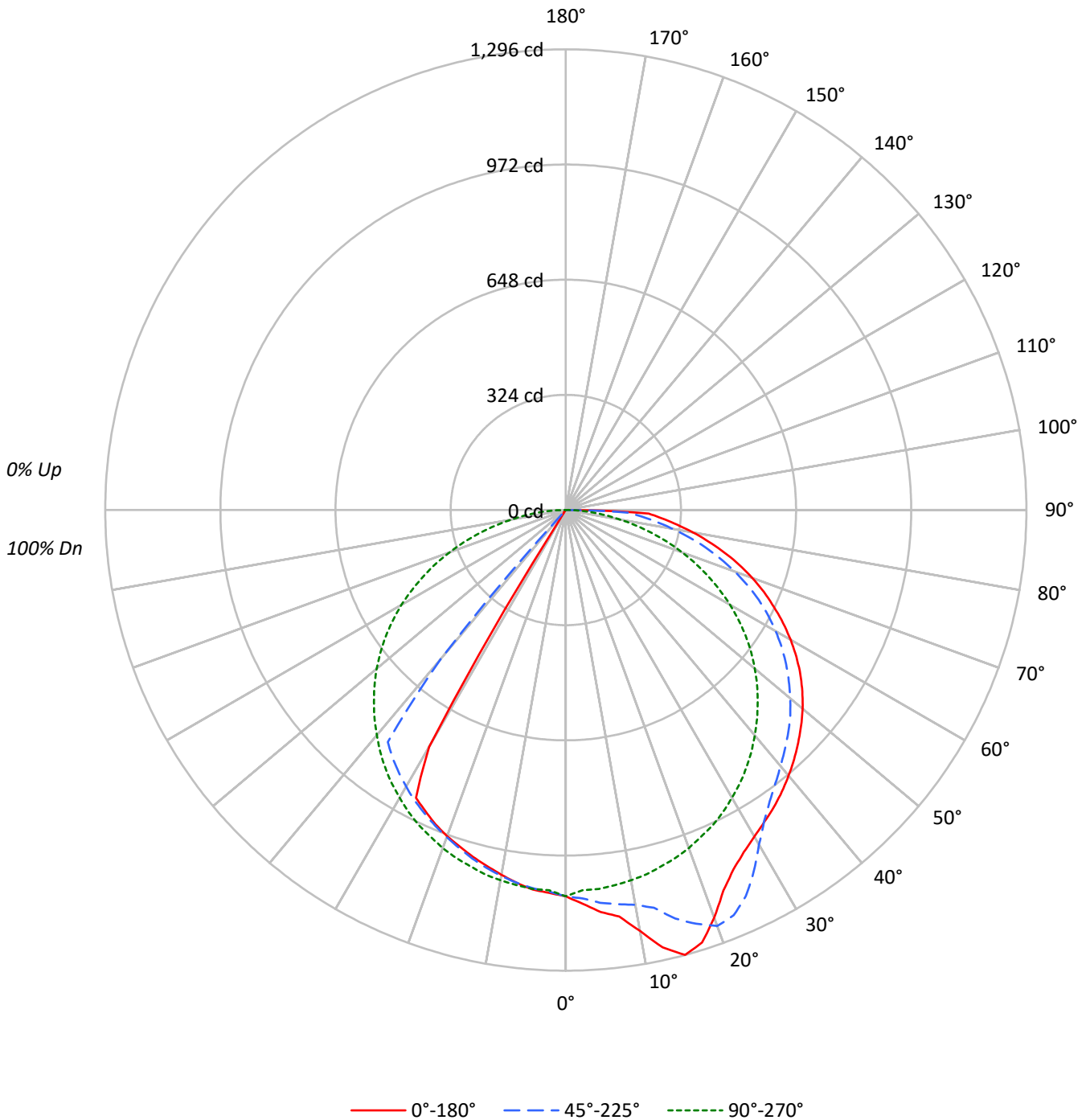
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2940.0 lumens
Efficiency: N/A
Efficacy: 140.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.28 / 1.25
Luminous Opening: Rectangular (W 0.21' x L: 1.98' x H: 0')
CIE Type: Direct

Input Watts (W): 21
Input Voltage (V):
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: 0.998
Total Harmonic Distortion (THDi): 8
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20	
RC	80					70					50					30					10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100	
1	108	103	99	95	105	101	97	93	97	93	90	93	90	87	89	87	85	85	85	85	83	
2	99	90	83	77	96	88	82	76	85	79	75	81	77	73	78	75	71	71	71	71	69	
3	90	79	71	65	88	78	70	64	75	68	63	72	67	62	70	65	61	61	61	61	59	
4	83	71	62	55	80	69	61	55	67	60	54	65	58	53	62	57	53	53	53	53	50	
5	76	63	55	48	74	62	54	48	60	53	47	58	52	47	56	51	46	46	46	46	44	
6	71	57	48	42	69	56	48	42	55	47	42	53	46	41	51	45	41	41	41	41	39	
7	66	52	44	37	64	51	43	37	50	42	37	48	42	37	47	41	36	36	36	36	35	
8	61	48	39	34	60	47	39	33	46	38	33	45	38	33	43	37	33	33	33	33	31	
9	57	44	36	30	56	43	36	30	42	35	30	41	35	30	40	34	30	30	30	30	28	
10	54	41	33	28	53	40	33	28	39	32	27	38	32	27	37	32	27	27	27	27	26	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	28369	28369	28369	28369	28369
5°	29751	29064	28037	27990	28087
10°	31876	29896	28032	27701	27619
15°	35021	32162	28043	27437	27302
20°	33907	34599	28114	27217	27131
25°	32128	34531	28182	27125	26929
30°	31989	32779	28181	27093	23189
35°	32532	31875	28226	27094	319
40°	33236	32030	28189	18687	211
45°	34146	32676	28194	343	137
50°	35341	33493	28208	252	49
55°	36683	34448	28130	168	27
60°	38149	35616	27883	63	31
65°	39945	37023	27373	74	74
70°	42618	38579	26511	92	92
75°	46644	41055	25360	252	121
80°	54742	45947	23485	376	180
85°	81479	64494	21987	569	359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 87.5°
 Luminance: 139699 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	104.1	3.5
10°-20°	310.9	10.6
20°-30°	477.9	16.3
30°-40°	512.2	17.4
40°-50°	465.2	15.8
50°-60°	424.3	14.4
60°-70°	315.6	10.7
70°-80°	222.2	7.6
80°-90°	107.6	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	892.9	30.4
0°-40°	1405.1	47.8
0°-60°	2294.5	78.0
0°-90°	2940.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2940.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1087	1087	1087	1087	1087	
5°	1135	1109	1070	1068	1072	110
15°	1296	1190	1038	1015	1010	358
25°	1115	1199	978	942	935	519
35°	1021	1000	886	850	10	639
45°	925	885	764	9	4	715
55°	806	757	618	4	1	720
65°	647	599	443	1	1	640
75°	462	407	251	2	1	488
85°	272	215	73	2	1	273
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6	1086.6
2.5°	1109.0	1096.6	1093.5	1102.2	1070.4	1091.6	1074.2	1077.9	1077.9
5°	1135.2	1117.7	1109.0	1106.5	1069.8	1084.1	1068.0	1068.0	1071.7
7.5°	1153.2	1133.9	1118.4	1112.1	1064.2	1076.7	1058.0	1058.0	1058.0
10°	1202.4	1166.3	1127.7	1116.5	1057.4	1066.7	1044.9	1046.2	1041.8
12.5°	1260.3	1227.9	1145.8	1114.6	1049.9	1054.3	1031.2	1030.6	1025.6
15°	1295.7	1271.5	1189.9	1112.1	1037.5	1041.2	1015.1	1013.2	1010.1
17.5°	1275.8	1272.1	1220.4	1110.3	1026.3	1023.2	997.0	995.1	992.7
20°	1220.4	1229.8	1245.3	1106.5	1011.9	1005.7	979.6	978.3	976.5
22.5°	1158.8	1168.2	1234.1	1112.8	994.5	987.1	960.9	959.7	957.2
25°	1115.3	1115.3	1198.7	1127.7	978.3	964.6	941.6	939.8	934.8
27.5°	1084.8	1079.2	1145.8	1144.5	957.8	942.2	921.1	919.2	913.0
30°	1061.1	1051.8	1087.3	1152.6	934.8	918.0	898.7	896.8	769.2
32.5°	1040.0	1030.0	1038.1	1159.4	911.7	891.8	875.0	624.2	27.4
35°	1020.7	1009.5	1000.1	1154.5	885.6	865.7	850.1	18.0	10.0
37.5°	998.9	990.2	969.0	1128.3	857.6	837.7	822.8	10.0	8.7
40°	975.2	967.1	939.8	1089.7	827.1	810.3	548.3	8.7	6.2
42.5°	951.0	944.7	912.4	1033.7	796.6	779.8	17.4	6.8	5.0
45°	924.8	919.2	885.0	965.9	763.6	748.1	9.3	5.0	3.7
47.5°	898.1	890.0	856.4	893.1	730.0	714.5	8.1	3.7	2.5
50°	870.1	861.3	824.6	829.0	694.5	679.0	6.2	2.5	1.2
52.5°	838.9	828.4	791.0	771.1	657.2	642.9	5.0	1.2	0.6
55°	805.9	794.1	756.8	720.7	618.0	601.8	3.7	1.2	0.6
57.5°	769.2	756.2	720.7	672.8	576.3	407.0	2.5	1.2	0.6
60°	730.6	717.6	682.1	628.0	534.0	28.0	1.2	1.2	0.6
62.5°	689.6	675.9	641.6	582.5	488.5	23.0	1.2	1.2	1.2
65°	646.6	630.4	599.3	535.8	443.1	19.3	1.2	1.2	1.2
67.5°	603.7	583.1	553.9	487.9	396.4	16.2	1.2	1.2	1.2
70°	558.3	535.8	505.4	439.4	347.3	13.1	1.2	1.2	1.2
72.5°	511.6	489.8	456.8	390.2	301.2	10.0	1.2	1.2	1.2
75°	462.4	442.5	407.0	341.1	251.4	7.5	2.5	1.2	1.2
77.5°	411.4	395.8	356.0	290.6	202.9	5.0	2.5	1.2	1.2
80°	364.1	346.7	305.6	239.6	156.2	3.7	2.5	1.9	1.2
82.5°	315.5	300.0	258.9	192.9	112.0	3.1	2.5	1.9	1.2
85°	272.0	257.0	215.3	150.6	73.4	2.5	1.9	1.9	1.2
87.5°	233.4	219.7	178.6	110.2	41.7	1.9	1.9	1.9	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	26.15	27.77	26.52	28.08	28.40	21.59	23.20	21.95	23.52	23.83
	3H	28.60	30.07	28.98	30.39	30.75	22.23	23.69	22.61	24.02	24.38
	4H	29.73	31.11	30.12	31.46	31.83	22.37	23.76	22.77	24.10	24.48
	6H	30.82	32.10	31.23	32.47	32.86	22.42	23.70	22.83	24.06	24.45
	8H	31.35	32.58	31.77	32.97	33.36	22.40	23.63	22.83	24.02	24.42
	12H	31.92	33.09	32.35	33.48	33.90	22.38	23.56	22.81	23.94	24.37
4H	2H	26.81	28.19	27.21	28.54	28.92	22.71	24.10	23.11	24.44	24.82
	3H	29.50	30.67	29.91	31.07	31.47	24.06	25.22	24.47	25.62	26.02
	4H	30.80	31.86	31.23	32.27	32.71	24.59	25.65	25.02	26.07	26.50
	6H	32.08	33.01	32.53	33.45	33.91	24.87	25.80	25.32	26.24	26.70
	8H	32.70	33.58	33.16	34.02	34.49	24.90	25.78	25.36	26.22	26.69
	12H	33.39	34.18	33.87	34.66	35.13	24.92	25.71	25.39	26.18	26.65
8H	4H	31.16	32.04	31.62	32.48	32.94	25.54	26.42	26.00	26.86	27.32
	6H	32.64	33.38	33.13	33.87	34.34	26.13	26.87	26.62	27.35	27.83
	8H	33.43	34.09	33.93	34.60	35.08	26.31	26.97	26.81	27.48	27.96
	12H	34.32	34.91	34.82	35.40	35.96	26.41	27.00	26.91	27.49	28.05
12H	4H	31.20	31.99	31.68	32.47	32.93	25.76	26.55	26.24	27.02	27.49
	6H	32.73	33.40	33.24	33.90	34.39	26.48	27.14	26.99	27.65	28.13
	8H	33.61	34.20	34.12	34.69	35.25	26.79	27.38	27.30	27.87	28.43